Notice of Allowability	Application No.	Applicant(s)		
	10/620,580	BIDERMANN ET AL.	BIDERMANN ET AL.	
	Examin r	Art Unit		
	LAM T MAI	2819	- My	
The MAILING DATE f this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT I of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in this 5) or other appropriate communica RIGHTS. This application is subje	application. If not include ation will be mailed in due of	d ourse. THIS	
1. 🛮 This communication is responsive to <u>4/23/04</u> .	* * *			
2. ⊠ The allowed claim(s) is/are <u>1-34</u> .				
3. $igotimes$ The drawings filed on <u>15 July 2003</u> are accepted by the E	Examiner.			
 4. ☐ Acknowledgment is made of a claim for foreign priority to a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 	ve been received. ve been received in Application No			
3. Copies of the certified copies of the priority d	ocuments have been received in t	his national stage applicati	on from the	
International Bureau (PCT Rule 17.2(a)). * Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be subj	MENT of this application.			
INFORMAL PATENT APPLICATION (PTO-152) which give				
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") mu (a) ☐ including changes required by the Notice of Draftsper 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner Paper No./Mail Date	rson's Patent Drawing Review(P _ r's Amendment / Comment or in th	ne Office action of		
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	1.84(c)) should be written on the dr the header according to 37 CFR 1.1	awings in the front (not the I21(d).	back) of	
 DEPOSIT OF and/or INFORMATION about the dep- attached Examiner's comment regarding REQUIREMENT 			ote the	
		r v		
Attachment(s) 1. ⊠ Notice of References Cited (PTO-892)	5. ☐ Notice of Inform	al Patent Application (PTO	-152)	
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summ	ary (PTO-413),	······································	
 Information Disclosure Statements (PTO-1449 or PTO/SB/Paper No./Mail Date 7/15/03 Examiner's Comment Regarding Requirement for Deposit 			vance	
of Biological Material	9. ☐ Other	· · ·		
	* :			

DETAILED ACTION

Response to Amendments

Applicant's terminal Disclaimer filed on 4/23/04 has been considered, approved and entered. As a result, the instant application is in allowance condition.

Specification

The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor-errors. Applicant's cooperation is—requested in correcting any errors of which applicant may become aware in the specification.

Allowable Subject Matter

Claims 1-34 are allowable.

The following is an examiner's statement of reasons for allowance: Claims 1-34 are allowed over the prior art of record. The prior art fail to teach or suggest an apparatus and method for an analog to digital converter that that a comparator comprising a multiplexor coupled to a plurality of differential pairs, each differential pair coupled to a respective one of said plurality of analog input signals, and the multiplexor selecting one of said plurality of differential pairs based on said plurality of input select signals; and a latch having a first input terminal coupled to receive an output signal said comparator, the latch having a data-input terminal-coupled to receive a series of binary signals, an output signal said comparator controlling when said latch provides an output signal corresponding to a binary signal applied to said data input terminal, wherein said comparator compares said first signal with a selected one of the plurality of analog input

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signals to generate the output signal, and the latch provides one or more bits of an N-bit digital code representing said selected one of said plurality of analog input signals.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

-___Cited References ____

The prior art made of record and not replied upon is considered pertinent to application's disclosure. The cited references relate to symmetrical analog to digital converter.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LAM T MAI whose telephone number is (571)272-1807. The examiner can normally be reached on 6:00 am - 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mike Tokar can be reached on (571) 272-1812. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Lam T. Mai Art Unit 2819

Michael Tokar
Supervisory Patent Examiner

Technology Center 2800